In re Patent Application of

SHINKAWA et al

Atty. Ref.: 249-201

Serial No. 09/970,154

Group:

Filed: October 4, 2001

Examiner:

For: METHOD FOR PURIFYING ANTIBODY

June 10, 2002

Assistant Commissioner for Patents Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

Please amend the above-identified application as follows:

IN THE CLAIMS

Amend the claims as follows:

- 1. (Amended) A process for purifying an antibody composition having a desired property, which comprises using a substance having an affinity to a carbohydrate binding to the antibody.
- 8. (Amended) A process for purifying an antibody composition comprising an antibody having a carbohydrate structure to which bisecting N-acetylglucosamine is bound, which comprises using a column to which a wheat germ lectin or a *Lens culinaris* lectin E₄ is immobilized.
- 9. (Amended) A process for purifying an antibody composition having a high antibody-dependent cell-mediated cytotoxic activity, which comprises using a column to which a wheat germ lectin or a *Lens culinaris* lectin E₄ is immobilized.
- 10. (Amended) A process for purifying an antibody composition comprising an antibody having a carbohydrate structure to which fucose is bound, which comprises using a column to

oogols, oeloc

SHINKAWA et al Serial No. 09/970,154

which a Lens culinaris lectin is immobilized.

11. (Amended) A process for purifying an antibody having a high antibody-dependent cell-mediated cytotoxic activity, which comprises using a column to which a Lens culinaris lectin is immobilized.

12. (Amended) A process for purifying an antibody composition comprising an antibody having a carbohydrate structure to which galactose is bound, which comprises using a carrier for hydrophobic chromatography.

13. (Amended) A process for purifying an antibody composition having a high complement-dependent cytotoxic activity or antibody-dependent cell-mediated cytotoxic activity, which comprises using a carrier for hydrophobic chromatography.

15. (Amended) A process for purifying an antibody composition having a desired property, which comprises combining the process according to any one of claims 1 and 8-13.

16. (Amended) The process according to any one of claims 1 and 8-13, wherein the antibody is human IgG.

18. (Amended) A medicament comprising, as an active ingredient, the antibody composition purified by the process according to any one of claims 1 and 8-13.

REMARKS

The claims have been amended to reduce the filing fees and improper multiple dependencies, to advance prosecution and without prejudice.

An early and favorable Action on the merits is requested.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By:

B. J. Sadoff

Reg. No. 36,663

1100 North Glebe Road, 8th Floor Arlington, VA 22201-4714

Telephone: (703) 816-4000 Facsimile: (703) 816-4100

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS

Amend the claims as follows:

- 1. (Amended) A process for purifying an antibody <u>composition</u> having a desired property, which comprises using a substance having an affinity to a carbohydrate binding to the antibody.
- 8. (Amended) A process for purifying an antibody composition comprising an antibody having a carbohydrate structure to which bisecting N-acetylglucosamine is bound, which comprises using a column to which a wheat germ lectin or a *Lens culinaris* lectin E₄ is immobilized.
- 9. (Amended) A process for purifying an antibody <u>composition</u> having a high antibody-dependent cell-mediated cytotoxic activity, which comprises using a column to which a wheat germ lectin or a *Lens culinaris* lectin E_4 is immobilized.
- 10. (Amended) A process for purifying an antibody composition comprising an antibody having a carbohydrate structure to which fucose is bound, which comprises using a column to which a *Lens culinaris* lectin is immobilized.
- 11. (Amended) A process for purifying an antibody having a high antibody-dependent cell-mediated cytotoxic activity, which comprises using a column to which a *Lens culinaris* lectin is immobilized.
- 12. (Amended) A process for purifying an antibody composition comprising an antibody having a carbohydrate structure to which galactose is bound, which comprises using a carrier for hydrophobic chromatography.
- 13. (Amended) A process for purifying an antibody <u>composition</u> having a high complement-dependent cytotoxic activity or antibody-dependent cell—mediated cytotoxic activity, which comprises using a carrier for hydrophobic chromatography.
- 15. (Amended) A process for purifying an antibody <u>composition</u> having a desired property, which comprises combining the process according to any one of claims 1 [to 14] and

SHINKAWA et al Serial No. 09/970,154

<u>8-13</u>.

- 16. (Amended) The process according to any one of claims 1 [to 15] <u>and 8-13</u>, wherein the antibody is human IgG.
- 18. (Amended) A medicament comprising, as an active ingredient, the antibody composition purified by the process according to any one of claims 1 [to 17] and 8-13.